# Data Sheet (Cat.No.TMAC-02124)

TargetMol

## Anti-IKBKA/IKBKB Antibody (6L571)

### Product Details

| | |
|---|---|
| Ig Type: | IgG |
| Reactivity: | Human,Mouse,Rat |
| Conjugation: | Unconjugated |
| Molecular Weight: | Theoretical: 85/87 kDa. |
| Clone: | 6L571 |
| Purification: | ProA affinity purified |

### Applications

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|---|---|
| Application: | ICC/IF,IP,WB |
| Recommended | WB: 1:1000; ICC/IF: 1:100-500 |

### Properties

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|---|---|
| Stability & Storage: | Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. |
| Shipping: | Shipping with blue ice. |

### Antigen Details

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|---|---|
| Immunogen: | Recombinant Protein |
| Uniprot ID: | O15111 & O14920 |
| Synonyms: | MGC131801;IKBKA;IkBKB;Nuclear factor NFkappaB inhibitor kinase alpha;TCF16;IKKA; Conserved Helix Loop Helix Ubiquitous Kinase;IKK A;IKK B;Inhibitor Of Nuclear Factor Kappa B Kinase alpha Subunit;NFKBIKA;I Kappa B Kinase alpha;Inhibitor of kappa light chain gene enhancer in B cells;Inhibitor of nuclear factor kappa B kinase beta subunit;I kappa B kinase beta;Nuclear Factor Kappa B Inhibitor Kinase alpha;CHUK1;Conserved helix loop ubiquitous kinase;IKK beta;IKK 2;IKK1;I Kappa B Kinase 1;IKK a kinase;Inhibitor of kappa light polypeptide gene enhancer in B cells kinase beta;IKK2;IkB kinase alpha subunit;Nuclear factor NF kappa B inhibitor kinase beta;Nuclear factor NF kappa B inhibitor kinase alpha;IkappaB kinase;Nuclear factor of kappa light chain gene enhancer in B cells inhibitor;IKK alpha;NFKBIKB;IKKB;Inhibitor of nuclear factor kappa B kinase subunit beta;Inhibitor Of Kappa Light Polypeptide Gene Enhancer In B Cells;IKKalpha;IKK 1;IKKAI kappa B kinase 2;CHUK |

### Research Background

The transcription factor NFkB is retained in the cytoplasm in an inactive form by the inhibitory protein IkB. Activation of NFkB requires that IkB be phosphorylated on specific serine residues, which results in targeted degradation of IkB. IkB kinase a (IKKa), previously designated CHUK, interacts with IkB-a and specifically phosphorylates IkB-a on Ser 32 and 36, the sites that trigger its degradation. IKKa appears to be critical for NFkB activation in response to proinflammatory cytokines. Phosphorylation of IkB by IKKa is stimulated by the NFkB inducing kinase (NIK), which itself is a central regulator for NFkB activation in response to TNF and IL-1. The functional IKK complex contains three subunits, IKKa, IKKb and IKKg (also designated NEMO), and each appear to make essential contributions to IkB phosphorylation.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481